

WHAT IS CLAIMED IS:

1 1. A wireless control system for customizing a wireless control signal
2 for a remote electronic system based on the location of the wireless control
3 system, comprising:

4 a transmitter circuit configured to transmit the wireless control
5 signal having control data which will control the remote electronic system;

6 an interface circuit configured to receive navigation data from a
7 navigation data source; and

8 a control circuit coupled to the transmitter circuit and the interface
9 circuit configured to receive a transmit command, to receive navigation data, to
10 determine a current location based on the navigation data, and to command the
11 transmitter circuit to transmit a wireless control signal associated with the
12 current location.

1 2. The wireless control system of Claim 1, further comprising a
2 vehicle interior element coupled to the transmitter circuit and the control circuit,
3 wherein the wireless control system is configured for mounting in a vehicle
4 interior.

1 3. The wireless control system of Claim 2, wherein the vehicle interior
2 element is an overhead console, a visor, or an instrument panel.

1 4. The wireless control system of Claim 1, wherein the control circuit
2 is operable in a training mode to record location data and wireless control signals
3 in sets of data pairs, wherein each set of data pairs represents a location
4 proximate to a remote electronic system associated with the wireless control
5 signal stored in the data pair.

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1 5. The wireless control system of Claim 4, wherein the control circuit
2 is configured to search a plurality of data pairs to compare a current location to
3 the location proximate to the remote electronic system stored in each data pair,
4 and the control circuit is configured to command the transmitter to transmit the
5 wireless control signal from a data pair when a location proximate to the remote
6 electronic system for that data pair is proximate to the current location.

1 6. The wireless control system of Claim 1, further comprising a
2 receiver circuit configured to receive a wireless signal, wherein the control circuit
3 is configured to identify and store a data code on the wireless signal, wherein the
4 wireless control signal transmitted by the transmitter circuit includes the stored
5 data code.

1 7. The wireless control system of Claim 6, wherein the control circuit
2 is further configured to automatically associate a location with the stored data
3 code and to store the location in a data pair with the stored data code.

1 8. A method of training a wireless control system on a vehicle for
2 wireless control of a remote electronic system based on the location of the
3 vehicle, comprising:
4 receiving a request to begin training from a user;
5 receiving a current location for the vehicle;
6 providing control data for a signal to be sent wirelessly for a remote
7 electronic system; and
8 associating the current location for the vehicle with the wireless
9 control signal for the remote electronic system.

1 9. The method of Claim 8, wherein the request to begin training is
2 received via a pushbutton.

1 10. The method of Claim 8, further comprising receiving an indication
2 from the user as to which of a plurality of wireless control signals is to be
3 transmitted based on the location of the vehicle.

1 11. The method of Claim 8, further comprising:
2 receiving a wireless signal having a data code; and
3 identifying and storing the data code on the wireless signal,
4 whereby the wireless control system can wirelessly control the remote
5 electronic system by transmitting the data code of the wireless signal.

1 12. A method of transmitting a wireless control signal for controlling a
2 remote electronic system based on the location of a vehicle, comprising:
3 receiving a current location for the vehicle;
4 comparing the current location of the vehicle with a plurality of
5 stored locations, each location associated with a wireless control signal;
6 determining the wireless control signal associated with the stored
7 location closest to the current location; and
8 transmitting the wireless control signal associated with the stored
9 location closest to the current location.

1 13. The method of Claim 12, wherein transmitting the wireless control
2 signal associated with the stored location closest to the current location includes
3 transmitting the wireless signal only upon determining that the current location is
4 within a predefined distance of the stored location.

1 14. The method of Claim 12, wherein the control data is configured to
2 control a garage door opener.

1 15. The method of Claim 12, wherein the step of transmitting includes
2 transmitting a plurality of wireless control signals having different control data
3 which will control a plurality of remote electronic systems when the comparing
4 the current location of the vehicle with a listing of stored locations indicates that
5 the vehicle is near the remote electronic systems.

1 16. The method of Claim 12, wherein the navigation data source is a
2 vehicle compass.

1 17. A transmitter for wirelessly controlling a plurality of remote
2 electronic systems at one of a plurality of locations, comprising:
3 a memory configured to store a plurality of control data messages
4 and a plurality of locations, each control data message configured to control a
5 different remote electronic system, the memory configured to associate each
6 location with a plurality of control data messages;
7 a transmitter circuit; and
8 a control circuit configured to command the transmitter circuit to
9 transmit a plurality of wireless control signals in response to a single event, each
10 wireless control signal containing a different control data message.

1 18. The transmitter of Claim 17, further comprising an operator input
2 device, wherein the single event is the actuation of the operator input device by
3 a vehicle occupant.

1 19. The transmitter of Claim 17, wherein the control circuit is
2 configured to receive navigation data and to determine a proximity between the
3 transmitter and the remote electronic systems, wherein the single event is the
4 control circuit determining that the transmitter is within a predetermined
5 proximity of the remote electronic systems.

1 20. The transmitter of Claim 19, further comprising an operator-
2 actuatable switch coupled to the control circuit, wherein the control circuit is
3 user-programmable such that the switch causes the transmitter to send a first
4 wireless control signal having a first control data message and the control circuit
5 automatically sends a second wireless control signal having a second control
6 data message different than the first control data message when the control
7 circuit determines that the transmitter is within a predetermined proximity of the
8 remote electronic system.

1 21. The transmitter of Claim 17, further comprising a vehicle interior
2 element coupled to the transmitter circuit and the control circuit, wherein the
3 transmitter is configured for mounting in a vehicle interior.

1 22. The transmitter of Claim 21, wherein the vehicle interior element is
2 an overhead console, a visor, or an instrument panel.

1 23. The transmitter of Claim 17, wherein the control circuit is
2 configured to be programmed by the user as to which of the wireless control
3 signals are to be transmitted in response to the single event.

1 24. The transmitter of Claim 17, further comprising a plurality of
2 operator-actuatable switches coupled to the control circuit, wherein the control
3 circuit is user-programmable such that a first of the switches causes the
4 transmitter to send a first wireless control signal and a second of the switches
5 causes the transmitter to send second and third wireless control signals
6 simultaneously or in sequence.